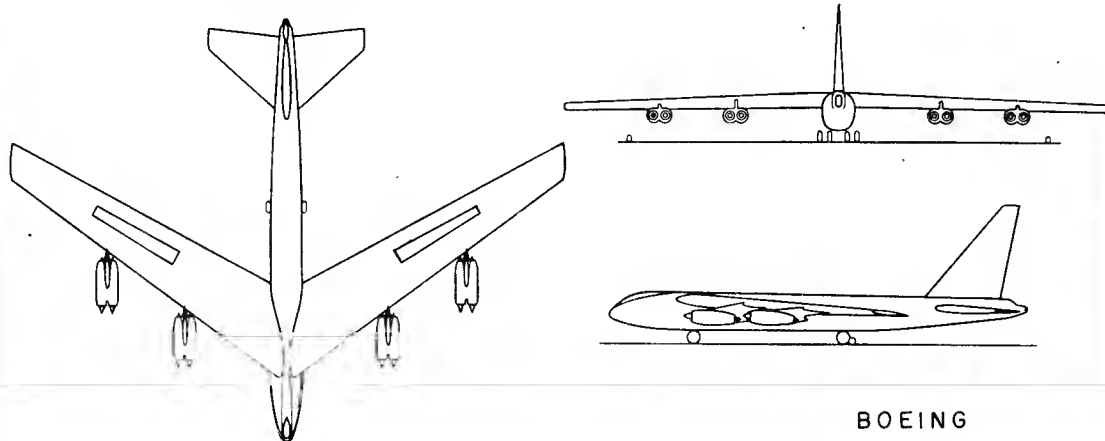


# Characteristics Summary

BOMBER-----XB-52



BOEING

Wing area ..... 4000 sq ft      Length ..... 143.1 ft

Span ..... 185.0 ft      Height ..... 46.2 ft

AVAILABILITY			PROCUREMENT			
Number available			Number to be delivered in fiscal years			
ACTIVE	RESERVE	TOTAL				

## STATUS

1. Design initiated: 27 October 1948
2. Mock-up inspection: 26 April 1949
3. Engineering acceptance inspection: April 1951 (estimated)
4. First flight: 1st article (with J40 engines), June 1951 (estimated); 2nd article, December 1951 (estimated)
5. Construction has been initiated.
6. First article (stripped) will utilize J40-WE-6 for preliminary flight tests. YJ57-P-3 will be installed in second article. However, tentative plans call for reworking this engine into a future model of higher rating as shown below.

PRELIMINARY

## POWER PLANT

(8) XJ57-P-( )  
Pratt-Whitney  
ENGINE RATINGS  
S.L.Static      LB - RPM  
Max:            9250 -  
Mil:            9250 -  
Nor:            8600 -

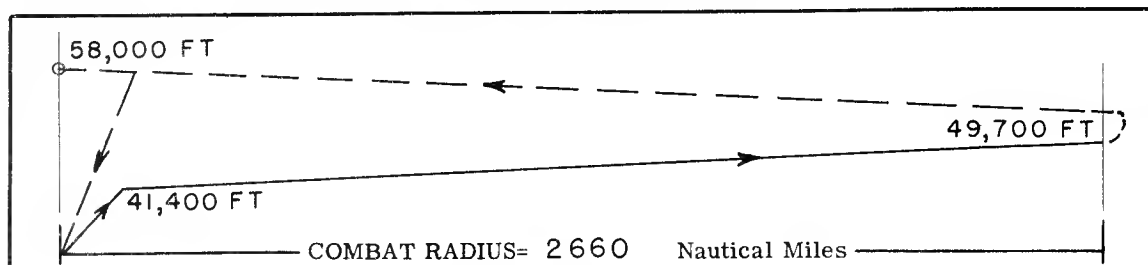
Note: All performance based on above ratings

## FEATURES

Crew: 5  
Cabin Pressurization  
Bombing-Navig. Radar  
Gun-Laying Radar  
K-1 Bombing System  
Quadricycle Landing Gear  
Vertical Camera Station  
Braking Parachute  
ATO: 4x4 to 5000 lb (60 seconds)  
Max Fuel Capacity: 28,670 gal

## ARMAMENT

Turrets: 1  
Guns: (2) .50 cal  
Ammunition (tot): 1200 rds  
Max Bomb Load: 25,000 lb  
Max Bomb Size: 25,000 lb

*Characteristics Summary Basic Mission* .....XB-52

P E R F O R M A N C E		
COMBAT RADIUS	COMBAT RANGE	COMBAT SPEED
2660 naut. mi with 10,000 lb payload at 453 knots avg. in 11.9 hours.	5270 naut. mi with 10,000 lb payload at 456 knots avg. in 11.7 hours.	526 knots at 35,000 ft alt, max power
		<b>MAXIMUM SPEED</b>
		538 knots at 20,000 ft alt, max power
C L I M B	C E I L I N G	T A K E - O F F
3000 fpm sea level, take-off weight normal power	43,500 ft 100 fpm, take-off weight normal power	ground run 5300 ft no assist   — ft assisted
5300 fpm sea level, combat weight maximum power	49,400 ft 500 fpm, combat weight maximum power	over 50 ft height 5630 ft no assist   — ft assisted
L O A D	W E I G H T S	S T A L L I N G S P E E D
Bombs: 10,000 lb Ammunition: 1200 rds/.50 cal	Empty..... 152,300 lb Combat... 228,900 lb Take - off 330,000 lb limited by strength	117 knots flaps down, take-off weight
Fuel: 27,417 gal protected 73 % droppable 0 % external 0 %		<b>TIME TO CLIMB</b> _____

## N O T E S

- PERFORMANCE BASIS:
  - Estimated data
  - Fuel density: 6.0 lb/gal
  - In computing Radius and Range, specific fuel consumptions have been increased 5% to allow for variations of fuel flow in service aircraft.
  - Variable exit tail pipe version of Pratt-Whitney XJ57-P-1 engine specification No. A-1620, dated 26 May 1949
- REVISION BASIS: To reflect change in max fuel capacity, length of fuselage and clarification of development status.